SIEMENS

Data sheet 6XV1870-8AH20

product type designation

product description

IE Connecting Cable M12-180/M12-180

Flexible plug-in cable (4-wire), preferred length, prefabricated with two 4-pole M12 connectors (D-coded, 180° cable outlet)

Industrial Ethernet connecting Cable M12-180/M12-180, pre-assembled IE FC Trailing cable GP, with 2 M12 plugs (D-coded) length 2.0 m.



suitability for use	For connecting Industrial Ethernet stations (e.g. SIMATIC ET200 and SCALANCE XP-200) in IP 65/67 degree of protection	
cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN	
wire length	2 m	
electrical data		
number of electrical connections	2	
attenuation factor per length		
• at 10 MHz / maximum	0.063 dB/m	
• at 100 MHz / maximum	0.213 dB/m	
impedance		
• at 1 MHz 100 MHz	100 Ω	
relative symmetrical tolerance		
• of the characteristic impedance at 1 MHz 100 MHz	5 %	
near-end crosstalk per length		
• at 1 MHz 100 MHz	0.5 dB/m	
transfer impedance per length / at 10 MHz	20 mΩ/m	
loop resistance per length / maximum	120 mΩ/m	
operating voltage		
RMS value	80 V	
NVP value in percent	66 %	
mechanical data		
number of electrical cores	4	
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires	
core diameter		
 of AWG22 insulated conductor 	0.75 mm	
outer diameter		
 of inner conductor 	0.75 mm	
 of the wire insulation 	1.5 mm	
 of the inner sheath of the cable 	3.9 mm	
of cable sheath	6.5 mm	
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm	
material		
 of the wire insulation 	polyethylene (PE)	
 of the inner sheath of the cable 	PVC	
of cable sheath	PVC	
color		
 of the insulation of data wires 	white/yellow/blue/orange	

bending radius * with multiple bends / minimum permisable * with continuous bending number of bending cycles \$00000000000000000000000000000000000	of cable sheath	green
with simple bend / minimum permisable 3.5 mm 40 mm 100 mm		
with manipule bends / minimum permissible whith continuous bending number of bending cycles 300000000 Drag phain suitable for 2 million bending cycles at a bending radius of 100 mn sepect of 4 min and an acceleration of a min* tensile load / maximum 150 N 86 kg/km print	-	32.5 mm
. with continuous bending		
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Special plug interlock Serewed		68 kg/km
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of the M12 circular connector ambient temperature outring parature outring storage	tightening torque / for M12 round connector / maximum	0.6 N·m
ambient temperature • during operation • during storage • during storage • during straneport • during storage • during straneport • during installation • fincte • fire behavior • finate • to mineral oil • to mineral oil • to mineral oil • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • resistant • resist	connector coding	M12
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- during installation - incide	during storage	-25 +75 °C
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fire behavior chemical resistance • to mineral ol • to grease radiological resistance / to UV radiation protection class IP product features, product functions, product components / general product features, product functions, p	during installation	-10 +60 °C
chemical resistance	• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
• to mineral oil • to grease Conditional resistance fadlological resistance / to UV radiation protection class IP P65, IP67 Product features, product functions, product components / general product feature • halogen-free • silicon-free • silicon-free • silicon-free • silicon-free • sundards, specifications, approvals ULFET, listing / 300 V Rating Ves; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / Oil, RES ULFET, tsyle / 600 V Rating Ves; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 certificate of sultability UL 228 • CE marking • RoHS conformity • Yes • CE marking • RoHS conformity • Yes • Caffe Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • No • Ploski Rejestr Statkow (PRS) • RoHS conding to IEC 81346-2 • according to IEC 81346-2 to WG • to website: Selection guide for cables and connectors • to website: Selection guide for cables and connectors • to web page: SiePortal • to website: Industry Online Support	fire behavior	flame resistant according to UL 1685 (CSA FT 4)
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	security information	Siemens provides products and solutions with industrial cybersecurity functions

that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval



Declaration of Conformity





Manufacturer Declaration



Environment Industrial Communication

<u>Confirmation</u> <u>PROFINET</u>

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